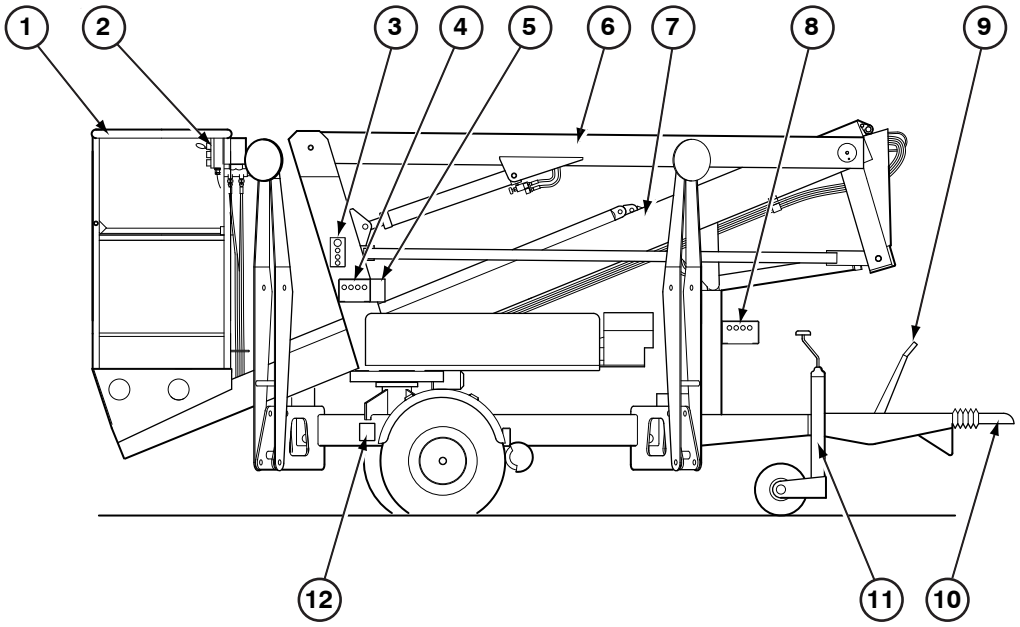
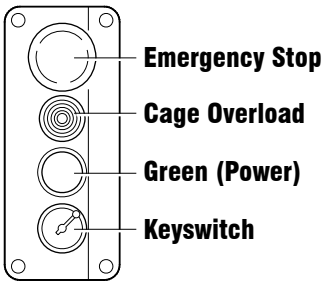


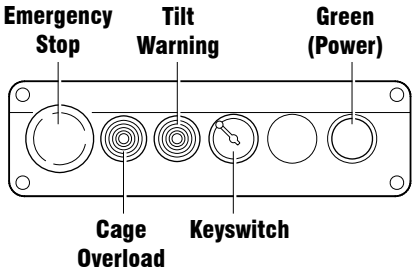
Nifty 120T (12043)

1) Cage/Platform
2) Cage Controls
3) Ground Controls – Buttons
4) Ground Controls - Levers
5) Manual Hand Pump
6) Lower Boom
7) Upper Boom
8) Stabiliser Controls
9) Handbrake
10) Tow Coupling
11) Jockey Wheel
12) Mains Power Input

Ground Controls



Cage Controls

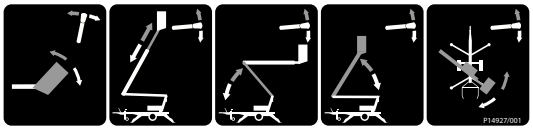


Ground Control Levers

Lower Boom | Upper Boom | Slew

Push and hold green power button
Select lever for desired boom function

Cage Control Levers



Cage Levelling | Tele Boom | Lower Boom | Upper Boom | Slew

Always operate the Niftylift in accordance with the manufacturers full Operating & Safety Instructions supplied with each model.

1 DAILY SAFETY CHECKS

1) **Labels & Manuals:** Check all labels, placards and Operating & Safety manual (located in the box within the platform) are in place and legible.
2) **Structure:** Check there are no loose, missing, damaged or malfunctioning components including but not limited to: chassis, booms, platform, platform gate (free to close under gravity), all welds, guards, covers, boom clamps, brakes, wheels, tyres and outriggers / stabilisers (if applicable). Ensure that platform is free from debris, grease or oil that could cause slipping or tripping hazards.
3) **Warnings & Switches:** Check there are no loose, missing, damaged or malfunctioning components including but not limited to: platform load sensor, tilt sensor and / or alarm horn, foot pedal, high engine and / or high drive limit switches, micro switches, lights and beacons.
4) **Controls:** Check all operating, emergency and manual descent controls function correctly – select an area free from obstructions and hazards, and exercise extreme caution.
5) **Hoses & Wiring:** Check there is no damage to or leaks from hydraulic, fuel and air systems, electrical cables and wiring.
6) **Power Systems:** Check batteries, engine oil and coolant (if applicable) for condition, cleanliness, connections and correct fluid levels.
7) **Personal Protective Equipment:** Check that full body safety harnesses, short lanyards, and hard hats are in good condition and fit for purpose.

2 SETTING UP PROCEDURE

1) Position Niftylift on firm ground, bearing in mind range of boom movement so that any overhead obstructions or possible hazards such as, but not limited to, power cables, telephone lines, drains, manhole covers, etc. can be safely avoided.
2) **APPLY HANDBRAKE:** Chock wheels and cordon off the area using appropriate cones, barriers and flags.
3) Levelling the machine using the hydraulic outriggers can accommodate a slope of up to 12 degrees, if necessary using suitable load bearing pads to support the downhill jacks. Do not elevate the platform unless the base can be corrected to within **three degrees** of level.
4) If the load bearing capacity of the ground is in any doubt the machine must **NOT** be used.
5) Release boom travelling clamp.
6) Check all red emergency stops are not engaged (i.e. fully out).
7) Ensure that the key switch at the ground control station is turned to the “ON” position (i.e. clockwise).
8) At the outrigger control station press down and hold the power lever on the right hand side. This activates the power and diverts hydraulic flow to the legs for setting up. Then select the appropriate control lever to begin setup. **Note: No power will be available if the booms are not stowed onto the boom rest.**
9) Using the four outrigger control levers, lower each outrigger onto a firm, level surface and level the machine base ensuring each outrigger foot is taking equal weight with the wheels clear of the ground. **Note: Deploy the front two outriggers first to minimise the risk of damaging the jockey wheel.**
10) Check that the base is level using the spirit level adjacent to outrigger control station as a guide.
11) The booms can now be operated from the ground control station by pressing and holding the green power button. **Note: If the klaxon alarm sounds check that each outrigger is lowered and each footpad is taking equal weight.**
12) **Always** lower booms **fully** before adjusting, raising, retracting or moving the outriggers in any way.

3 GROUND/PLATFORM CONTROLS

1) Check below, above and around the platform for any obstruction or hazards before operating any function.
2) Ensure all red emergency stops are out.
3) **Ground:** Turn the key switch at the ground control station to the "ON" position

   Platform: Remove the key from the ground control station (turn key anti-clockwise) and put the key in the platform control station and switch to "ON" (clockwise).
4) Push and **hold** green power button.
5) Select the boom function required and operate hand levers in full accordance with manufacturers Operating and Safety manual.
6) When not in use return machine to stowed position, fully raise and stow all outriggers, turn the key to the "OFF" position (anti-clockwise), remove key and chock wheels.

4 EMERGENCY CONTROLS

IN THE EVENT OF AN INCAPACITATED OPERATOR

Turn the key switch selector at ground control station to ground (i.e. fully down). Lower on ground controls as detailed under section 4.3 Ground Control Operation in Operating & Safety Manual.

IN THE EVENT OF MACHINE FAILURE

Operate manual hand pump (located adjacent to the base controls) and lower platform to the ground using either platform or base controls. If initial movement of the machine allows the master alarm to reset, normal controls will be available.

5 TOWING

The maximum recommended towing speed of a Niftylift is **45 mph (72 kph)** with a vehicle that complies with all road traffic regulations. Speeding may result in death or serious injury.

The importance of the suitability of your towing vehicle must be stressed. The manufacturers' details concerning each model will give you recommended Gross Vehicle Weights (GVW) or Gross Train Weights (GTW) neither of which should be exceeded.

POSITION TOWING VEHICLE AND TRAILER ON LEVEL GROUND BEFORE ATTEMPTING TO COUPLE/DE-COUPLE.

Coupling Instructions

1) Depress the trigger on the lever mechanism and lift the handle upwards and forward.
2) Place the unlocked coupling head onto the towing ball and apply slight downward pressure. The head will automatically lock onto the ball.
3) Ensure that the trigger has returned to its free position before attempting to tow, and that the coupling head is securely on the towing ball.
4) Connect the breakaway cable/chain to the towing vehicle hitch - not to the tow ball itself.
5) Connect the lighting plug to the vehicle and check the light functions.
6) Raise the jockey wheel to its stowed position and secure for transit.

De-coupling Instructions

1) Apply trailer handbrake and chock wheels.
2) Lower the jockey wheel to the ground. Disconnect the breakaway cable/chain and lighting plug.
3) Operate the handle by depressing the trigger and manually lift the coupling head clear of the towing ball or screw down the telescopic jockey wheel to achieve the same effect.

Handbrake Operation

1) To operate the trailer parking brakes pull the handbrake lever upwards and backwards. The spring loaded mechanism will engage and stay in the operated position until re-set.

2) To disengage the parking brakes, firmly grasp the handbrake lever and pull upwards. Depress the ratchet release button in the end of the handbrake lever and return the lever to the horizontal position. Care should be taken when operating the handbrake lever due to the forces involved in engaging the ratchet mechanism.

6 OPERATIONAL SAFETY

- When operating your Niftylift, your safety is of utmost concern. In order to fully appreciate all aspects of the machines operation it should be ensured that each operator has **READ** and fully **UNDERSTOOD** the relevant manual covering machine use, maintenance and servicing. If any doubts exist concerning any points covered in your manual, contact your local dealer or Niftylift Ltd.
- Before using any Niftylift, thoroughly inspect the machine for damage or deformation to all major components. Likewise, check the control systems for hydraulic leaks, damaged hoses, cable faults or loose covers to electrical components. At no time should damaged or faulty equipment be used - Correct all defects before putting the platform to work. If in doubt, contact your local dealer or Niftylift Ltd.
- **THE MANUFACTURER HAS NO DIRECT CONTROL OVER THE MACHINE APPLICATION AND USE. THEREFORE CONFORMATION WITH GOOD SAFETY PRACTICES IS THE RESPONSIBILITY OF THE USER AND HIS OPERATING PERSONNEL. FAILURE TO UNDERSTAND AND FOLLOW ALL SAFETY RULES COULD RESULT IN SERIOUS INJURY OR DEATH.**
- Only trained persons will be permitted to operate the Niftylift.
- Always operate the Niftylift in full accordance with the manufacturers Operating & Safety Instructions for that model.
- Before use each day and at the beginning of each shift the Niftylift shall be given a visual inspection and functional test including, but not limited to, operating and emergency controls, safety devices, personal protective clothing, including fall protection, air, hydraulic and fuel system leaks, cables and wiring harness, loose or missing parts, tyres and wheels, placards, warnings, control markings and Operating and Safety Manuals, guards and guard rail systems and all other items specified by the manufacturer.
- Any problems or malfunctions that affect operational safety must be repaired prior to use of the platform, with specific regard to any safety components refer to the Parts Manual for part numbers and details. If in doubt, contact Niftylift Ltd.
- Always ensure that all warning labels, instructions, placards, control markings and Safety Manuals are intact and clearly legible. If replacements are required contact your local dealer or Niftylift. Always observe and obey safety and operating instructions on such labels.
- Do not alter, modify or disable in any way the controls, safety devices, interlocks or any other part of the machine.
- Before the Niftylift is used and during use the user shall check the area in which it is to be used for possible hazards such as, but not limited to, uneven ground drop-offs, holes, bumps, obstructions, debris, floor and overhead obstructions, high voltage conductors, wind and weather, unauthorised persons and any other possibly hazardous conditions.
- Never exceed the maximum platform capacity, as indicated on the decals and machine serial plate.
- Never position any part of the Niftylift within 4.0m, (12ft) of any electrical power line, conductor or similar not exceeding 66kV. (Minimum span 125m).
- **THIS MACHINE IS NOT INSULATED.** If in doubt, contact the appropriate authorities.
- On entering the platform, ensure that the drop down entry bar is closed afterwards.
- Use of an approved safety belt and lanyard, hardhat and appropriate safety clothing is mandatory. Fasten harness to designated harness securing points within the platform and do not remove until leaving the platform whilst in the stowed position.
- Always remain standing within the platform. Do not attempt to increase your height or reach by standing and/or climbing on the platform guardrails or any other object. **KEEP YOUR FEET ON THE PLATFORM FLOOR**. Do not sit, stand or climb on the guardrail, mid rail or boom linkage. Use of planks, ladders or any other devices on the Niftylift for achieving additional height or reach shall be prohibited.

- Do not use the platform levelling system to artificially increase the outreach of the platform. Never use boards or ladders in the platform to achieve the same result.
- Do not use the platform to lift overhanging or bulky items that may exceed the maximum capacity or carry objects that may increase the wind loading on the platform. (e.g. Notice boards etc.)
- The Niftylift shall not be operated from a position on trucks, trailers, railway cars, floating vessels, scaffolds or similar equipment unless Niftylift Ltd in Great Britain approves the application in writing.
- Always check the area below and around the platform before lowering or slewing to ensure that it is clear of personnel and obstructions. Care should be taken when slewing out into areas where there may be passing traffic. Use barriers to control traffic flow or prevent access to the machine.
- Stunt driving and horseplay, on or around the Niftylift, shall not be permitted.
- When other moving equipment and vehicles are present, special precautions shall be taken to comply with local ordinances or safety standards established for the work place. Warnings such as, but not limited to, flags, roped off areas, flashing lights and barricades shall be used.
- It shall be the responsibility of the user to determine the hazard classification of any particular atmosphere or location. Aerial platforms operated in hazardous locations shall be approved and of the type required. (For the USA refer to ANSI/NFPA 505-1987.)
- The operator shall immediately report to his supervisor any potentially hazardous location(s) (environment) which become evident during operation.
- If an operator encounters any suspected malfunction of the Niftylift or any hazard or potentially unsafe condition relating to capacity, intended use or safe operation he shall cease operation of the Niftylift and request further information as to safe operation from his management, or owner, dealer or manufacturer before further operation of the Niftylift.
- The operator shall immediately report to his superior any problems or malfunctions of the Niftylift, which becomes evident during operation. Any problems or malfunctions that affect the safety of operation shall be repaired prior to continued use.
- The boom and platform of the Niftylift shall not be used to jack the wheels off the ground.
- The Niftylift shall not be used as a crane.
- The Niftylift shall not be positioned against another object to steady the platform.
- Care should be taken to prevent rope, electric cords and hoses from becoming entangled in the aerial platform.
- Batteries shall be recharged in a well-ventilated area free of flame, sparks or other hazards that may cause explosion. Highly explosive hydrogen gas is produced during the charging process.
- When checking electrolyte levels, great care should be taken to protect eyes, skin and clothing. Battery acid is highly corrosive and protective glasses and clothing is recommended.
- When the machine is not in use always stow the booms correctly. **NEVER LEAVE THE KEYS IN THE MACHINE**, if it is to be left for any period of time. Use wheel chocks if leaving on an incline.
- If the platform or elevating assembly becomes caught, snagged or otherwise prevented from normal motion by adjacent structure or other obstacles, such that control reversal does not free the platform, all personnel shall be removed from the platform safely before attempts are made to free the platform using ground controls.
- The engine must be shut down while fuel tanks are being filled. Fuelling must be done in a well-ventilated area free of flame, sparks or any other hazard that may cause fire or explosion. **PETROL (GASOLINE), LIQUID PROPANE AND DIESEL FUELS ARE FLAMMABLE.**
- **NEVER START THE NIFTYLIFT IF YOU SMELL PETROL (GASOLINE), LIQUID PROPANE OR DIESEL FUEL. THESE FUELS ARE HIGHLY FLAMMABLE**
- The operator shall implement means provided to protect against use by unauthorised persons.
- Never remove anything that may affect the stability of the machine such as, but not limited to, batteries, covers, engines, tyres or ballast.